

## QUARTERLY PROGRESS REPORT

Project Title:	Circular Elastomeric Bearings			
RFP NUMBER: 2000-25		NJDOT RESEARCH PROJECT MANAGER:		
		Mr. Robert Sasor		
TASK ORDER NUMBER/Study Number:		PRINCIPAL INVESTIGATOR:		
Task Order No. 104 / 4-26674		Dr. Husam Najm		
Study Start Date: Study End Date:	01/01/2001 6/30/2002	Period Covered: 1 <sup>st</sup> Quarter 2002		

Task	% of Total	% of Task	% of Task to	% of Total
		this quarter	date	Complete
Literature Search and Review	5	15	95	5
Prepare elastomeric bearing questionnaire	30	5	95	30
Analyze cases of instrumented elast. brg	5	25	95	5
Evaluate cost savings with circ. Ealst. brg	10	20	80	8
Comparison between circ. and rectang. brg	20	10	75	15
Recommend. on use of circ. elast. brg	10	40	70	7
Recommend. on use of high perf. Lamin.	5	20	85	4
in elast. Brg.				
Progress reports and tech memos	5	20	80	4
Final report and tech memos	10	45	50	5
TOTAL	100%			83

## 1. Progress this quarter by task:

Finite element analysis was done to evaluate deformations and stress distributions of square, rectangular, and circular bearings. Laminated bearings were also analyzed. Processing of late responses from DOT's survey. Preparation of draft of final report. Make recommendations on use of circular bearings in NJ.

- 2. Proposed activities for next quarter by task:
  - Evaluate load-rotation of circular and square bearings for different thicknesses. Continue to work on final report.
- 3. List of deliverables provided in this quarter by task (product date): Draft of final report.
- 4. Progress on Implementation and Training Activities:
  None



## 5. Problems/Proposed Solutions: None

## 6. Budget Summary\*

Total Project Budget (# of years)	1 Year	\$64,293.00
Total Project Expenditure to date	\$34,081	
% of Total Project Budget Expended	53%	
Task Order Number/Study Number:		104 / 4-26674
Current Task Order Budget (# of years)	Year 1	\$64,293.00
Actual Expenditure to date against current task	\$34,081	
% of current task order budget expended	53%	

<sup>\*</sup> These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.